

MONITOR WELL PRE-SPUD PROPOSAL

- 1) WELL NAME/NUMBER: WW-1
- 2) PROPOSED LOCATION: (a) General (on or off-site) Off-site
(attach map) Site Area NASA Land
(b) Sect 31 Twnshp 20S Rng 3E SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$
- 3) WELL PARAMETERS:
 - (a) Est. total depth 500 (ft) (b) Est. ground elevation 4455 ft
 - (c) Anticipated stratigraphy:
Santa Fe Group from 0 ' to TD ' (depth)
from ' to ' (depth)
from ' to ' (depth)
 - (d) Anticipated water bearing horizon(s):
Santa Fe Group at 400 ' (depth)
at ' (depth)
 - (e) Anticipated static water level 400 ' (depth)
- 4) WELL PURPOSE/JUSTIFICATION (attach maps and table if needed):
Downgradient, shallow monitoring well adjacent to state and private land. Plume delineation well.
- 5) PROPOSED DRILLING PARAMETERS:
 - (a) Drilling method(s): (air/foam/mud rotary/auger/etc.)
Mud/rotary ' from 0 ' to 300 ' (depth)
Air foam/rotary ' from 300 ' to TD ' (depth)
' from ' to ' (depth)
 - (b) Lithology sampling - collect sample every:
5' intervals Method Grab from 0 ' to TD (depth)
Core type 2" Christiansen from 400 ' to 410 ' (depth)
2" Christiansen from ' to ' (depth)
2" Christiansen from ' to ' (depth)
 - (c) Drilling rig type: Chicago Pneumatic
 - (d) Anticipated drilling additive(s): None
Water source NASA Quality checked by GC (method)

(e) Decontamination/Quality Assurance:

Clean equipment by steam (method) prior to every well

Clean tools by steam (method) prior to every well

Other QA procedures Air filtering/monitoring, periodic steam cleaning of tools/sampling equipment when necessary

(f) Drilling company: Larjon Drilling

address: P.O. Box 925, Las Cruces, New Mexico 88047

Company representative: Larry Johnson Phone 505-526-8672

6) PROPOSED BOREHOLE GEOPHYSICS

(a) Survey type: GR - Neutron from 0 ' to TD (depth)

Survey type: GR-Den-Res-Cal from 0 ' to TD (depth)

Survey type: 16"-40" E-Log from 0 ' to W.L. (depth)

(b) Geophysical company: Southwest Survey

address: 4200 Skyline Drive, Farmington, NM 87401

Company representative: Don Pierson Phone 505-325-8531

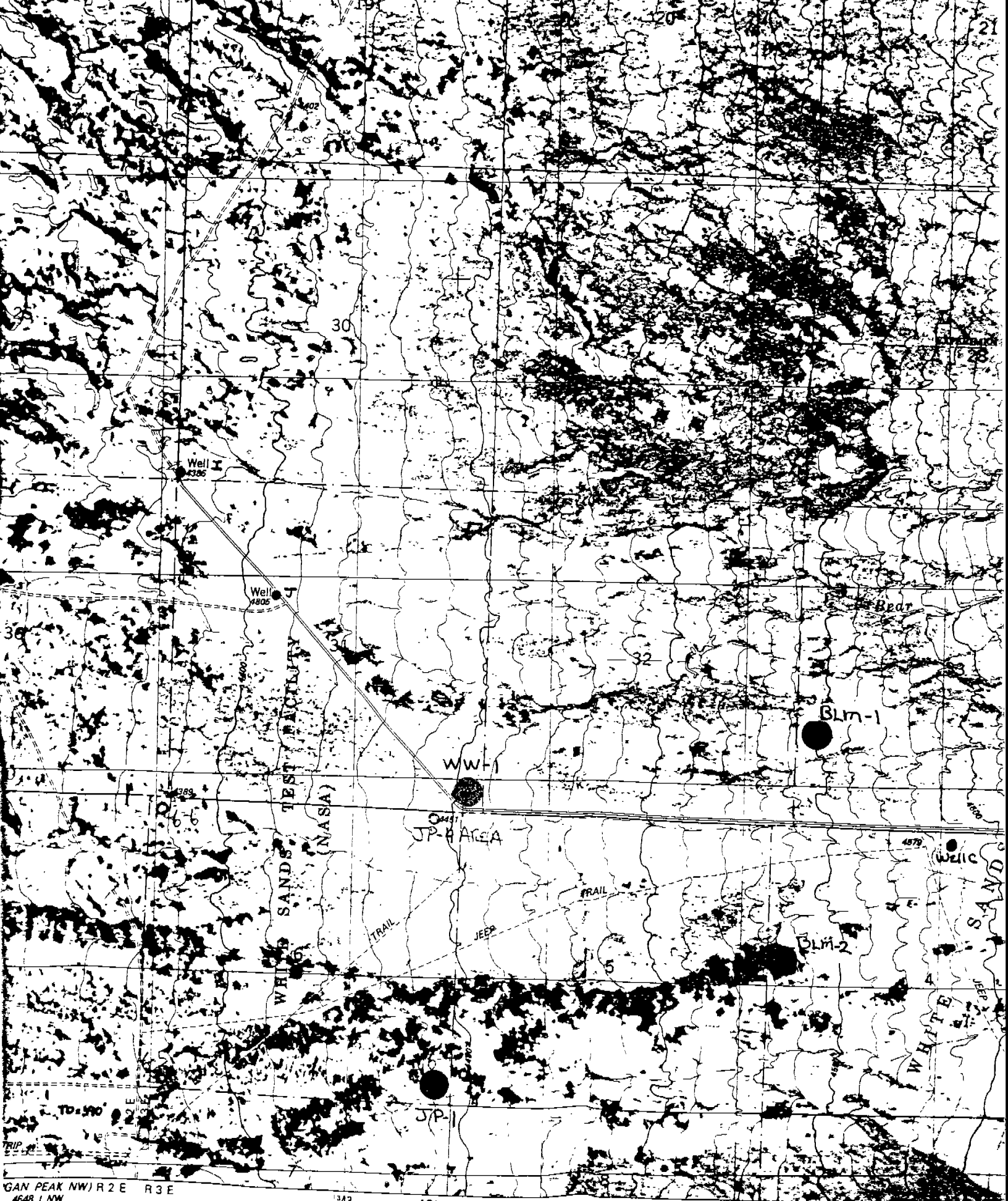
7) PROPOSED WELL COMPLETION DESIGN/MATERIALS

(a) Casing:	<u>Material</u>	<u>Diameter</u>	<u>From</u>	<u>To</u>	<u>Comments</u>
Temporary	<u>None</u>				
Surface	<u>steel</u>	<u>8" or 10"</u>	<u>0</u>	<u>100' max</u>	<u>100'</u>
Blank (riser)	<u>stainless</u>	<u>4"</u>	<u>0</u>	<u>+3'</u>	
Screen	<u>stainless</u>	<u>4"</u>			<u>0.02</u>
Completion Pipe	<u>stainless</u>	<u>4"</u>	<u>0</u>	<u>TD</u>	<u>*</u>
	<u>PVC</u>	<u>4"</u>	<u>0</u>	<u>W.L.</u>	<u>**</u>
Silt trap	<u>stainless</u>	<u>4"</u>	<u>to 5' below screen</u>		
Protective Cap	<u>stainless</u>	<u>4"</u>	<u>on top with lock</u>		

NA = Data not available at this time

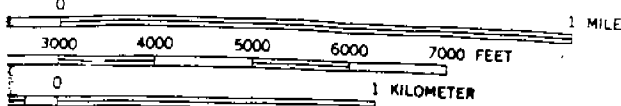
* for deep completions (500 feet or more)

** for shallow completions



GAN PEAK NW) R 2 E R 3 E
4648 1 NW

SCALE 1:24 000



ROAD CLASS
Primary highway,
hard surface
Secondary